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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	09/483,317	LIN, BO-IN				
Office Action Summary	Examiner	Art Unit				
	LAURIE RIES	2176				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>07 Ju</u>	lv 2008					
	action is non-final.					
·=						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
dicocca in accordance with the practice and in	x parte quayre, 1000 0.D. 11, 10	0 0.0. 210.				
Disposition of Claims						
4) ☐ Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-21 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers	election requirement.					
9) The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on <u>14 January 2000</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te				
Paper No(s)/Mail Date 6) Other:						

Art Unit: 2176

DETAILED ACTION

- 1. This action is responsive to communications: Request for Continued Examination, filed 7 July 2008, to the Original Application, filed 14 January 2000.
- 2. Claims 1-21 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Rivette, et al. (U.S. Patent 5,991,780, with priority to November 19, 1993) [hereinafter "Rivette"], in view of Krause, et al. (U.S. Patent 5,625,827, filed December 23, 1994) [hereinafter "Krause"], and further in view of Applicant's specification [hereinafter "specification"].
- 3. Claims 1-6 and 13-18 are also rejected under 35 U.S.C. 101.
- 4. Claims 1-21 are pending. Claims 1, 7, 13, and 19 are independent claims.

5. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7 July 2008 has been entered.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 1-6 and 13-18 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As per independent claims 1 and 13, these claims are directed to a naming-term and graphically aided document management and review <u>system</u>, however, the language of these claims merely describes a computer program per se. As such, this raises a question as to whether the claim is directed merely to an abstract idea that is not tied to a technological art, environment or machine, which would result in a practical

application producing a concrete, useful and tangible result to form the basis of statutory subject matter under 35 USC 101.

One technique for satisfying the requirements of 35 USC 101 is to claim code residing in memory (i.e., <u>hardware</u>), wherein that code produces a tangible result.

Claims 2-6 and 14-18 are dependent upon claims 1 and 13, and do not add any limitations that would render the claims statutory under 35 USC 101. Therefore, these claims are likewise rejected.

Claim Rejections -- 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rivette, et al. (U.S. Patent 5,991,780, with priority to November 19, 1993) [hereinafter "Rivette"], in view of Krause, et al. (U.S. Patent 5,625,827, filed December 23, 1994) [hereinafter "Krause"], and further in view of Applicant's specification [hereinafter "specification"].

Application/Control Number: 09/483,317

Art Unit: 2176

Regarding independent claim 1, Rivette in view of Krause and further in view of specification teaches:

A naming-term based and graphically aided document management and review system comprising:

Page 5

a document reading means for reading a single document having textual descriptions and at least a drawing having at least a graphic element assigned and illustrated with an alpha-numeral designation and described with said alpha-numeral designation designating a naming term in said textual descriptions, wherein said document reading means is further provided for converting said graphic element assigned with said alphanumerical-designation and said textual descriptions to a plurality of processor-recognized elements and incorporating the textual descriptions and the number of processor-recognized elements in a single processor-recognizable file;;

a search and link means for searching within said single processorrecognizable file for linking said processor-recognized with said alphanumeral designation with at least one associated segment of said textual
descriptions including and describing said naming term designated by said
alpha-numeral; and

a display means for displaying said drawing with said naming- term displayed immediately and directly next to said graphic element illustrated

with said alpha-numeral designation assigned to said graphic element whereby a document reviewer can directly and graphically view and associate said graphic element together with said naming term.

(See, Rivette, teaching a document reading means for reading a document having textual descriptions and at least a drawing having at least a graphic element assigned with an alpha-numeral designation, wherein said document reading means is further provided for converting said graphic element with said alphanumerical-designation and said textual descriptions to a plurality of processor-recognized elements in fig. 9 and 10. Fig. 9 demonstrates how the documents arrive in electronic format from the Patent and Trademark Office and then in fig. 10 displays the process of converting the documents into process-recognized elements.

Rivette also teaches a search and link means for searching said processor-recognized elements and linking alpha-numeral designations with at least one associated segment of textual description including the alpha-numeral designation wherein the alpha-numeral designation linked to a naming term in the document in fig. 35 and 36, col. 3 lines 28-51, and col. 29 line 65 – col. 30 line 20. Rivette describes how the text and image files are synchronized to produce Equivalent Files. The files are the equivalent of the elements and synchronized is the equivalent of linking in the claimed invention. Applicant's specification in page 3 lines 6-9 further discloses that products for searching and linking text to graphic elements are commonly available in the market.

While Rivette does not teach expressly that the textual descriptions include describing said naming term designated by said alpha-numeral designation, Krause teaches textual descriptions included in a secondary document that describes said naming term, such as describing the naming term which is designated by said alpha numeral designation "A" (See Krause, Figure 5, element 65). Furthermore, it would have been obvious to do so, providing the benefit of allowing the user to obtain additional information with regard to the naming term that may not be conveniently displayed on the initial display screen.

Rivette teaches the display of both graphics and associated text including the column and line numbers of said text on the screen immediately next to one another in both fig. 33, col. 3 line 66 to col. 4 line 5, and col. 4 lines 19-24. Fig. 33 shows and col. 4 lines 19-24 explains a patent image window immediately next to a window of associated text. What Rivette does not teach is each naming-term displayed immediately next to the graphic elements and the alpha-numeral designation assigned to each graphic element whereby a user can select an alpha-numeral designation or a naming term to display of the associated segment of textual description associated with said alpha-numeral designation or naming term.

Krause teaches each naming-term displayed immediately and directly next to the graphic elements in fig. 3-5 and col. 5 lines 7-18. See specifically Krause, Figure 5, showing a naming term, such as "building paper", for example, displayed immediately and directly next to said graphic element. The graphic elements and the text labels and text descriptions are all readily available to the user on one screen. Krause teaches in

col. 5 lines 7-13 that both a name and label are placed upon the graphic at each of a plurality of hotspots. Furthermore, Krause teaches in fig. 3b that each hotspot has unique coordinates to uniquely identify each hotspot and consequently each graphic element identified by each hotspot is likewise uniquely identified by individual coordinates related to the location of the hotspot. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, said hotspot to display an associated segment of textual description. Krause teaches that the hotspots annotate a primary document and link to a textual description in a secondary document. These documents could be document parts for example in a hierarchical compound document and thus the textual description invoked by the hotspot could be part of the same document as the graphical document containing the hotspot.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with Krause and teachings of Applicant's disclosure to have created the claimed invention. One of ordinary skill in the art would have taken the text of Rivette and used it to replace the numbered labels on the images, as is done in Krause, through the use of automatic link generation systems and techniques which Applicant's specification teaches were readily available in the market. It would have been obvious and desirable to make this modification such that the combined image and text information would have been easier to read.

As disclosed, a "naming term" is the element name which is identified by number in a patent drawing. See, disclosure, figure 4B, and page 8, lines 2-4 and 15-17. There are two specifications to the term "naming term" as used in the claims. Using claim 1 as

an exemplar of the independent claims, the first use of "naming term" is within the specification of the search and link means for associating a "alpha-numeral designation" with "textual descriptions" "wherein said alpha-numeral designation designating a naming term illustrated by said graphic element. See, claim 1. The first specification does not require search by the naming term. A naming term is merely what is designated by the alpha-numeral that is searched for. The first specification is expressly taught in Rivette, figure 36, element 502, and col. 29, line 65 through col. 30, line 29, teaching the element number search.

The second specification for a "naming term" is found in claim 1 in the last section which specifies a display means "for displaying said drawing with said naming term displayed immediately next to said graphic element illustrated with said alphanumeral designation assigned to said graphic element whereby a document reviewer can directly and graphically view and associate said graphic element together with said naming term." See, Claim 1. This limitation is read by the Examiner as having been intended by the Applicant to mean that a graphic element, for example a bolt in the drawing of a mechanical device, is displayed next to the element number, for example "12," along with the "naming element," such as "bolt 12" with "bolt 12" appearing on the drawing rather than the usual designation of just "12."

It is noted that in the example immediately above, "bolt" is the same thing as "12." Displaying one or the other in association with a graphic fully identifies the graphic. Associating both the name "bolt" and the number "12" in association with the graphic is more informative, but essentially duplicative. This relationship is noted in

Art Unit: 2176

support of the conclusion that it would have been obvious to one of ordinary skill in the art at the time of the invention to identify a graphic by either the name or the number or both. The motivation for using both is for convenience is not having to look up the name associated with the number, or the number associated with the name. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the invention of Rivette, according to the teachings of Krause to display both a name and a number for a graphic item, as is specified in claim 1.)

While Rivette and Krause do not teach expressly incorporating the textual descriptions and the number of processor-recognized elements in a single processor-recognizable file, it was well known in the art at the time of the invention that various data may be combined into a single processor-recognizable file. At the time of the invention it would have been obvious to one of ordinary skill in the art to include the textual descriptions and processor-recognizable elements of Rivette and Krause in a single file without changing the respective function of the references and yielding the predictable result of storing both the textual descriptions and the processor-recognizable elements. Furthermore, it would have been obvious to do so, providing the benefit of allowing the textual descriptions to be stored with the processor-recognizable elements, thus making future updates more easily manageable by allowing the developer to access only a single file requiring updates rather than multiple files.

Art Unit: 2176

Regarding dependent claim 2, Rivette teaches:

The document management and review system of claim 1 wherein: said search and link means for searching and linking said associated segment of textual description including and describing said alphanumeral designation assigned to said graphic element further includes a document-location-finder means for locating a column number, a page number, and a line-range number for said associated segment of textual description in said single document; and said display means is further provided for displaying said column number, said page number, and said line-range number for said segment of textual description next to said alpha-numeral- designation with said naming term displayed immediately and directly next to said graphic element.

(See, Rivette, teaching a document-location-finder from a search in col. 4 lines 24-34 and a column and line coordinates described in col. 16 lines 7-24. Rivette also teaches a display means for displaying the text which contains the original column and line information described in fig. 35 and 36, col. 2 lines 42-50, and col. 29 line 65 – col. 30 line 20. Rivette does not teach displaying this information next to the alpha-numeral-designation, naming term, and associated graphic element. Krause teaches displaying associated text immediately next to a graphic element identified by an alpha-number-designation and naming term in fig. 3-5 and col. 5 lines 7-18. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with Krause such that it displays the location information of the text in

Art Unit: 2176

the same manner as the claimed invention. Rivette is used for viewing patents and is fully aware of column number, page number, and line-range information of textual segments and can provide this information to the user. This information would have been displayed next to the appropriate graphic element using the teaching of Krause.)

Regarding dependent claim 3, Rivette teaches:

The document management and review system of claim I further comprising:

a user interface provided for allowing a user to input a user- selected naming-term to invoke said search and link means for searching within said single processor-recognizable file incorporating said single document for said user-selected naming-term to an associated segment of textual description including and describing said user selected naming term designated with an alpha-numeral designation linking said user-selected naming-term to an associated graphic element in said document and for displaying said associated segment of textual description immediately and directly next to art said associated graphic element whereby said document reviewer can directly and graphically view and associate said associated graphic element with said user selected naming-term simultaneously.

(See, Rivette, teaching a graphical user interface in col. 3 lines 49-51 and a text search in col. 4 lines 24-34. Rivette depicts this search in fig. 46. A search will obviously generate a report to display the results to the user after the search has completed. Rivette does not teach displaying the resulting of the search next to an associated graphic element related to the user selected naming-term. Krause does teach displaying text next to an associated graphic element assigned with a naming term related to a user selected naming-term. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the result of the search would have displayed next to the associated graphic element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding dependent claim 4, Rivette teaches:

The document management and review system of claim I further comprising:

a database for said single processor-recognizable file incorporating said single document for listing said alpha-numeral designation with said naming term and said at least one associated segment of said textual descriptions wherein said at least one associated segment of said textual

Art Unit: 2176

descriptions includes and describes said naming term designated by said alpha-numeral designation with said alpha-numeral designation-designating said naming term.

(See, Rivette, teaching a user interface in col. 3 lines 49-51 and search and link in col. 4 lines 24-34. Rivette teaches the display of a graphic element linked with an associated text segment in col. 3 line 66 to col. 4 line 3. Rivette depicts this search in fig. 46. A search will obviously generate a report to display the results to the user after the search has completed. Rivette does not teach displaying the resulting of the search next to an associated graphic element related to the user selected naming-term. Krause does teach displaying text including a naming term related to the user selected naming term next to an associated graphic element. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the result of the search would have displayed next to the associated graphic element related to the user selected namingterm. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding dependent claim 5, Rivette teaches:

The document management and review system of claim 2 further comprising:

Art Unit: 2176

a user interface provided for allowing a user to input a user-selected naming-term to invoke said search and link means for searching within said single processor-recognizable file incorporating said single document for said user-selected naming-term and for linking said user-selected naming-term to an associated segment of textual description including and describing a naming term related to said user selected naming term designated with an alpha-numeral designation linking to m~ an associated graphic element for displaying said associated segment of textual description and a column; or a page number, and a line-range number, in said single document, for said associated segment of textual description and at least a figure number of said associated graphic element.

(See, Rivette, teaching a user interface for searching and linking and also displaying the location of a found text in col. 3 lines 49-51, col. 3 line 66 through col. 4 line 3, and in col. 4 lines 24-34. Rivette depicts this search in fig. 46. A search will obviously generate a report to display the results to the user after the search has completed. Rivette is used for viewing patents and is fully aware of column number, page number, and line-range information of textual segments and can provide this information to the user. Rivette does not teach displaying the resulting of the search next to an associated graphic element related to the user selected naming-term. Krause does teach displaying text and a naming term related to a user selected naming term next to an associated graphic element related to a user selected naming-term. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or

Art Unit: 2176

naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the result of the search would have displayed next to the associated graphic element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding dependent claim 6, Rivette teaches:

The document management and review system of claim 2 further comprising:

a user interface provided for allowing a user to input a user- selected alpha-numeral designation to invoke said search and link means for searching within said single processor-recognizable file incorporating said single document for said user-selected alpha-numeral designation and for linking said user-selected alpha-numeral designation to an associated segment of textual description including and describing a naming term designated by said user-selected alpha-numeral in said document; and said display means is further provided for displaying at least a drawing having a graphic element linked by said user-selected alpha-numeral designation for displaying with said naming term associated with said user-selected alpha-numeral designation immediately next to said graphic element whereby said document reviewer can directly and graphically

Art Unit: 2176

view said drawing with said user selected alpha-numeral designation simultaneously with said naming term disposed immediately and directly next to said graphic element.

(See, Rivette, teaching a user interface for searching and linking a naming-term to associated text in col. 3 lines 49-51, col. 3 line 66 through col. 4 line 3, and col. 4 lines 24-34. Rivette also teaches a display for drawing a graphic element, its associated text, linked naming-term and said term's location in col. 2 lines 42-50 and col. 16 lines 7-24. Rivette does not teach displaying an alpha-numeral designation and naming term next to an associated graphic element. Krause does teach displaying a name, label, and text immediately next to an associated graphic element related to a user selected namingterm. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the name, label, and text segment would have been displayed next to the associated graphic element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding independent claim 7, Rivette teaches:

A method of naming-term based and graphically aided document review and management comprising:

Application/Control Number: 09/483,317

Art Unit: 2176

a) employing a document reading means for reading a single document having textual descriptions and at least a drawing having graphic element marked with an alpha-numeral designation;

Page 18

- b) converting said document including said graphic elements and said alpha-numeral-designation to a plurality of processor- recognized elements and incorporating said textual descriptions and said plurality of processor-recognizable elements into a single processor-recognizable file; c) employing a search and link means for searching within said single processor-recognizable file for said processor- recognized elements and linking each of said alpha-numeral designation with at least one associated segment of textual description including and describing said naming term designated by said alpha-numeral in said at least one associated segment of textual description; and
- d) displaying said drawing with said naming-term immediately and directly next to said graphic element marked by said alpha-numeral designation whereby a document reviewer can directly and graphically view and associate said graphic element together with said naming term.

(See, Rivette, teaching a document reading means for reading a document having textual descriptions and at least a drawing having at least a graphic element assigned with an alpha-numeral designation, wherein said document reading means is further provided for converting said graphic element with said alphanumerical-designation and said textual descriptions to a plurality of processor-recognized elements in fig. 9 and 10.

Fig. 9 demonstrates how the documents arrive in electronic format from the Patent and Trademark Office and then in fig. 10 displays the process of converting the documents into process-recognized elements.

Rivette also teaches a search and link means for searching said processorrecognized elements and linking alpha-numeral designations with at least one
associated segment of textual description including the alpha-numeral designation
wherein the alpha-numeral designation linked to a naming term in the document in fig.
35 and 36, col. 3 lines 28-51, and col. 29 line 65 – col. 30 line 20. Rivette describes
how the text and image files are synchronized to produce Equivalent Files. The files are
the equivalent of the elements and synchronized is the equivalent of linking in the
claimed invention. Applicant's specification in page 3 lines 6-9 further discloses that
products for searching and linking text to graphic elements are commonly available in
the market.

Rivette teaches the display of both graphics and associated text including the column and line numbers of said text on the screen immediately next to one another in both fig. 33, col. 3 line 66 to col. 4 line 5, and col. 4 lines 19-24. Fig. 33 shows and col. 4 lines 19-24 explains a patent image window immediately next to a window of associated text. What Rivette does not teach is each naming-term displayed immediately next to the graphic elements and the alpha-numeral designation assigned to each graphic element whereby a user can select an alpha-numeral designation or a naming term to display of the associated segment of textual description associated with said alpha-numeral designation or naming term.

Art Unit: 2176

Krause teaches each naming-term displayed immediately and directly next to the graphic elements in fig. 3-5 and col. 5 lines 7-18. See specifically Krause, Figure 5, showing a naming term, such as "building paper", for example, displayed immediately and directly next to said graphic element. The graphic elements and the text labels and text descriptions are all readily available to the user on one screen. Krause teaches in col. 5 lines 7-13 that both a name and label are placed upon the graphic at each of a plurality of hotspots. Furthermore, Krause teaches in fig. 3b that each hotspot has unique coordinates to uniquely identify each hotspot and consequently each graphic element identified by each hotspot is likewise uniquely identified by individual coordinates related to the location of the hotspot. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, said hotspot to display an associated segment of textual description. Krause teaches that the hotspots annotate a primary document and link to a textual description in a secondary document. These documents could be document parts for example in a hierarchical compound document and thus the textual description invoked by the hotspot could be part of the same document as the graphical document containing the hotspot. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with Krause and teachings of Applicant's disclosure

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with Krause and teachings of Applicant's disclosure to have created the claimed invention. One of ordinary skill in the art would have taken the text of Rivette and used it to replace the numbered labels on the images, as is done in Krause, through the use of automatic link generation systems and techniques which Applicant's specification teaches were readily available in the market. It would have

been obvious and desirable to make this modification such that the combined image and text information would have been easier to read.

While Rivette does not teach expressly that the textual descriptions include describing said naming term designated by said alpha-numeral designation, Krause teaches textual descriptions included in a secondary document that describes said naming term, such as describing the naming term which is designated by said alpha numeral designation "A" (See Krause, Figure 5, element 65). Furthermore, it would have been obvious to do so, providing the benefit of allowing the user to obtain additional information with regard to the naming term that may not be conveniently displayed on the initial display screen.

As disclosed, a "naming term" is the element name which is identified by number in a patent drawing. See, disclosure, figure 4B, and page 8, lines 2-4 and 15-17. There are two specifications to the term "naming term" as used in the claims. Using claim 1 as an exemplar of the independent claims, the first use of "naming term" is within the specification of the search and link means for associating a "alpha-numeral designation" with "textual descriptions" "wherein said alpha-numeral designation designating a naming term illustrated by said graphic element. See, claim 1. The first specification does not require search by the naming term. A naming term is merely what is designated by the alpha-numeral that is searched for. The first specification is expressly taught in Rivette, figure 36, element 502, and col. 29, line 65 through col. 30, line 29, teaching the element number search.

Art Unit: 2176

The second specification for a "naming term" is found in claim 1 in the last section which specifies a display means "for displaying said drawing with said naming term displayed immediately next to said graphic element illustrated with said alphanumeral designation assigned to said graphic element whereby a document reviewer can directly and graphically view and associate said graphic element together with said naming term." See, Claim 1. This limitation is read by the Examiner as having been intended by the Applicant to mean that a graphic element, for example a bolt in the drawing of a mechanical device, is displayed next to the element number, for example "12," along with the "naming element," such as "bolt 12" with "bolt 12" appearing on the drawing rather than the usual designation of just "12."

It is noted that in the example immediately above, "bolt" is the same thing as "12." Displaying one or the other in association with a graphic fully identifies the graphic. Associating both the name "bolt" and the number "12" in association with the graphic is more informative, but essentially duplicative. This relationship is noted in support of the conclusion that it would have been obvious to one of ordinary skill in the art at the time of the invention to identify a graphic by either the name or the number or both. The motivation for using both is for convenience is not having to look up the name associated with the number, or the number associated with the name. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the invention of Rivette, according to the teachings of Krause to display both a name and a number for a graphic item, as is specified in claim 7.)

Art Unit: 2176

While Rivette and Krause do not teach expressly incorporating the textual descriptions and the number of processor-recognized elements in a single processor-recognizable file, it was well known in the art at the time of the invention that various data may be combined into a single processor-recognizable file. At the time of the invention it would have been obvious to one of ordinary skill in the art to include the textual descriptions and processor-recognizable elements of Rivette and Krause in a single file without changing the respective function of the references and yielding the predictable result of storing both the textual descriptions and the processor-recognizable elements. Furthermore, it would have been obvious to do so, providing the benefit of allowing the textual descriptions to be stored with the processor-recognizable elements, thus making future updates more easily manageable by allowing the developer to access only a single file requiring updates rather than multiple files.

Regarding dependent claim 8, Rivette teaches:

The method of document management of claim 7 wherein:
said step c) further includes a step of employing a document- locationfinder means for locating a column or page number, and a line-range
number in said single document for said at least one associated segment
of textual description; and

Art Unit: 2176

said step d) of displaying said naming term immediately and directly next to said graphic elements further displaying said column or page number, and said line-range number in said single document for said segment of textual description for said graphic elements each displayed immediately and directly adjacent said naming term

(See, Rivette, teaching a document-location-finder from a search in col. 4 lines 24-34 and a column and line coordinates described in col. 16 lines 7-24. Rivette also teaches a display means for displaying the text which contains the original column and line information described in col. 2 lines 42-50. Rivette does not teach displaying this information next to the alpha-numeral-designation, naming term, and associated graphic element. Krause teaches displaying associated text next to a graphic element identified by an alpha-number-designation and naming term in fig. 3-5 and col. 5 lines 7-18. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with Krause such that it displays the location information of the text in the same manner as the claimed invention. Rivette is used for viewing patents and is fully aware of column number, page number, and line-range information of textual segments and can provide this information to the user. This information would have been displayed next to the appropriate graphic element using the teaching of Krause.)

Regarding dependent claim 9, Rivette teaches:

The method of document management of claim 7 further comprising:

Art Unit: 2176

e) employing a user interface for allowing a user to input a user- selected naming-term to invoke said search and link means for searching within said single processor-recognizable file incorporating said single document for said user-selected naming-term and for linking said user-selected naming-term to an associated segment of textual description in said document that includes and describes said user selected naming term designated with an alpha- numeral designation linking to an associated graphic element for displaying said associated segment of textual description including said user selected naming term immediately and directly next to said associated graphic element.

(See, Rivette, teaching a graphical user interface in col. 3 lines 49-51 and a text search in col. 4 lines 24-34. Rivette depicts this search in fig. 46. A search will obviously generate a report to display the results to the user after the search has completed. Rivette does not teach displaying the resulting of the search next to an associated graphic element related to the user selected naming-term. Krause does teach displaying text including a user selected naming term next to an associated graphic element related to a user selected naming-term. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the result of the search would have displayed next to the associated graphic element related to the user selected naming-term. It would have

Art Unit: 2176

been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding dependent claim 10, Rivette teaches:

The method of document management of claim 7 further comprising: incorporating said alpha-numeral designation with said naming term and said at least one associated segment of said textual descriptions in a database wherein said at least one associated segment of textual description includes and describes said naming term designated by said alpha-numeral designation with said alpha-numeral designation.

(See, Rivette, teaching a user interface in col. 3 lines 49-51 and search and link in col. 4 lines 24-34. Rivette teaches the display of a graphic element linked with an associated text segment in col. 3 line 66 to col. 4 line 3. Rivette depicts this search in fig. 46. A search will obviously generate a report to display the results to the user after the search has completed. Rivette does not teach displaying the resulting of the search next to an associated graphic element related to the user selected naming-term. Krause does teach displaying text next to an associated graphic element related to a user selected naming-term. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the result of the search would have displayed next to the associated graphic

Art Unit: 2176

element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding dependent claim 11, Rivette teaches:

The method of document management of claim 7 further comprising:

e) employing a user interface for allowing a user to input a user selected graphic element naming-term to invoke said search and link means for searching within said single processor-recognizable file incorporating said single document for said user-selected graphic element and for linking said user selected graphic element naming-term to an associated segment of textual description that including and describing said user-selected graphic naming-term and for displaying said associated segment of textual description and a column or page number, and a line-range number in said single document for said associated segment of textual description immediately and directly next to a graphic element marked with said user-selected graphic element naming-term.

(See, Rivette, teaching a user interface for searching and linking and also displaying the location of a found text in col. 3 lines 49-51, col. 3 line 66 through col. 4 line 3, and in col. 4 lines 24-34. Rivette depicts this search in fig. 35 and 36, fig. 46, and col. 29 line 65 – col. 30 line 20. A search will obviously generate a report to display the results to the user after the search has completed. Rivette is used for viewing patents and is fully

Art Unit: 2176

aware of column number, page number, and line-range information of textual segments and can provide this information to the user. Rivette does not teach displaying the resulting of the search next to an associated graphic element related to the user selected naming-term. Krause does teach displaying text next to an associated graphic element related to a user selected naming-term. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the result of the search would have displayed next to the associated graphic element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding dependent claim 12, Rivette teaches:

The method of document management of claim 7 further comprising:

e) employing a user interface for allowing a user to input a user-selected naming-term to invoke said search and link means for searching within said single processor-recognizable file incorporating said single document for said user-selected naming-term and for linking said user-selected naming-term to an associated segment of textual description including and describing said user-selected naming-term designated by an alphanumeral designation linking to an associated graphic element; and

Art Unit: 2176

f) displaying at least a drawing and said associated graphic element including said user-selected naming-term immediately and directly next to said associated graphic element.

(See, Rivette, teaching a user interface for searching and linking a naming-term to associated text in col. 3 lines 49-51, col. 3 line 66 through col. 4 line 3, and col. 4 lines 24-34. Rivette also teaches a display for drawing a graphic element, its associated text, linked naming-term and said term's location in col. 2 lines 42-50 and col. 16 lines 7-24. Rivette does not teach displaying an alpha-numeral designation and naming term next to an associated graphic element. Krause does teach displaying a name, label, and text immediately next to an associated graphic element related to a user selected namingterm. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the name, label, and text segment would have been displayed next to the associated graphic element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding independent claim 13, Rivette teaches:

A naming-term based and graphically aided document review and management system for reading a single document having textual

Art Unit: 2176

descriptions and at least a drawing consisted of graphic elements designated with graphic element designations associated with a naming term included and described in said textual description in said single document incorporated in a single processor-recognizable file, comprising: a display means for displaying said drawing with said naming term displayed immediately and directly next to said textual description of said single document incorporated in said single processor-recognizable file whereby a document reviewer can directly and simultaneously view and associate said naming term as described in said textual description to said graphic element without requiring a processor to process multiple files.

(See, Rivette, teaching a document reading means for reading a document having textual descriptions and at least a drawing having at least a graphic element assigned with an alpha-numeral designation, wherein said document reading means is further provided for converting said graphic element with said alphanumerical-designation and said textual descriptions to a plurality of processor-recognized elements in fig. 9 and 10. Fig. 9 demonstrates how the documents arrive in electronic format from the Patent and Trademark Office and then in fig. 10 displays the process of converting the documents into process-recognized elements.

Rivette also teaches a search and link means for searching said processorrecognized elements and linking alpha-numeral designations with at least one
associated segment of textual description including the alpha-numeral designation
wherein the alpha-numeral designation linked to a naming term in the document in fig.

35 and 36, col. 3 lines 28-51, and col. 29 line 65 – col. 30 line 20. Rivette describes how the text and image files are synchronized to produce Equivalent Files. The files are the equivalent of the elements and synchronized is the equivalent of linking in the claimed invention. Applicant's specification in page 3 lines 6-9 further discloses that products for searching and linking text to graphic elements are commonly available in the market.

Rivette teaches the display of both graphics and associated text including the column and line numbers of said text on the screen immediately next to one another in both fig. 33, col. 3 line 66 to col. 4 line 5, and col. 4 lines 19-24. Fig. 33 shows and col. 4 lines 19-24 explains a patent image window immediately next to a window of associated text. What Rivette does not teach is each naming-term displayed immediately and directly next to the graphic elements and the alpha-numeral designation assigned to each graphic element whereby a user can select an alphanumeral designation or a naming term to display of the associated segment of textual description associated with said alpha-numeral designation or naming term.

Krause teaches each naming-term displayed immediately and directly next to the graphic elements in fig. 3-5 and col. 5 lines 7-18. See specifically Krause, Figure 5, showing a naming term, such as "building paper", for example, displayed immediately and directly next to said graphic element. The graphic elements and the text labels and text descriptions are all readily available to the user on one screen. Krause teaches in col. 5 lines 7-13 that both a name and label are placed upon the graphic at each of a plurality of hotspots. Furthermore, Krause teaches in fig. 3b that each hotspot has

unique coordinates to uniquely identify each hotspot and consequently each graphic element identified by each hotspot is likewise uniquely identified by individual coordinates related to the location of the hotspot. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, said hotspot to display an associated segment of textual description. Krause teaches that the hotspots annotate a primary document and link to a textual description in a secondary document. These documents could be document parts for example in a hierarchical compound document and thus the textual description invoked by the hotspot could be part of the same document as the graphical document containing the hotspot.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with Krause and teachings of Applicant's disclosure to have created the claimed invention. One of ordinary skill in the art would have taken the text of Rivette and used it to replace the numbered labels on the images, as is done in Krause, through the use of automatic link generation systems and techniques which Applicant's specification teaches were readily available in the market. It would have been obvious and desirable to make this modification such that the combined image and text information would have been easier to read.

While Rivette does not teach expressly that the textual descriptions include describing said naming term designated by said alpha-numeral designation, Krause teaches textual descriptions included in a secondary document that describes said naming term, such as describing the naming term which is designated by said alpha numeral designation "A" (See Krause, Figure 5, element 65). Furthermore, it would

have been obvious to do so, providing the benefit of allowing the user to obtain additional information with regard to the naming term that may not be conveniently displayed on the initial display screen.

As disclosed, a "naming term" is the element name which is identified by number in a patent drawing. See, disclosure, figure 4B, and page 8, lines 2-4 and 15-17. There are two specifications to the term "naming term" as used in the claims. Using claim 1 as an exemplar of the independent claims, the first use of "naming term" is within the specification of the search and link means for associating a "alpha-numeral designation" with "textual descriptions" "wherein said alpha-numeral designation designating a naming term illustrated by said graphic element. See, claim 1. The first specification does not require search by the naming term. A naming term is merely what is designated by the alpha-numeral that is searched for. The first specification is expressly taught in Rivette, figure 36, element 502, and col. 29, line 65 through col. 30, line 29, teaching the element number search.

The second specification for a "naming term" is found in claim 1 in the last section which specifies a display means "for displaying said drawing with said naming term displayed immediately next to said graphic element illustrated with said alphanumeral designation assigned to said graphic element whereby a document reviewer can directly and graphically view and associate said graphic element together with said naming term." See, Claim 1. This limitation is read by the Examiner as having been intended by the Applicant to mean that a graphic element, for example a bolt in the drawing of a mechanical device, is displayed next to the element number, for example

"12," along with the "naming element," such as "bolt 12" with "bolt 12" appearing on the drawing rather than the usual designation of just "12."

It is noted that in the example immediately above, "bolt" is the same thing as "12." Displaying one or the other in association with a graphic fully identifies the graphic. Associating both the name "bolt" and the number "12" in association with the graphic is more informative, but essentially duplicative. This relationship is noted in support of the conclusion that it would have been obvious to one of ordinary skill in the art at the time of the invention to identify a graphic by either the name or the number or both. The motivation for using both is for convenience is not having to look up the name associated with the number, or the number associated with the name. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the invention of Rivette, according to the teachings of Krause to display both a name and a number for a graphic item, as is specified in claim 13.)

While Rivette and Krause do not teach expressly incorporating the textual descriptions and the number of processor-recognized elements in a single processor-recognizable file, it was well known in the art at the time of the invention that various data may be combined into a single processor-recognizable file. At the time of the invention it would have been obvious to one of ordinary skill in the art to include the textual descriptions and processor-recognizable elements of Rivette and Krause in a single file without changing the respective function of the references and yielding the predictable result of storing both the textual descriptions and the processor-recognizable elements. Furthermore, it would have been obvious to do so, providing

the benefit of allowing the textual descriptions to be stored with the processor-recognizable elements, thus making future updates more easily manageable by allowing the developer to access only a single file requiring updates rather than multiple files.

Regarding dependent claim 14, as amended, Rivette teaches:

The document review and management system of claim 13 wherein: said display means is further provided for displaying a column or page number, and a line-range number in said single document along with said segment of textual description immediately and directly next to said naming term in the drawing.

(See, Rivette, teaching a document-location-finder from a search in col. 4 lines 24-34 and a column and line coordinates described in col. 16 lines 7-24. Rivette also teaches a display means for displaying the text which contains the original column and line information described in col. 2 lines 42-50. Rivette does not teach displaying this information next to the alpha-numeral-designation, naming term, and associated graphic element. Krause teaches displaying associated text immediately and directly next to a graphic element identified by an alpha-number-designation and naming term in fig. 3-5 and col. 5 lines 7-18. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, said hotspot to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the

invention was made to have modified Rivette with Krause such that it displays the location information of the text in the same manner as the claimed invention. Rivette is used for viewing patents and is fully aware of column number, page number, and linerange information of textual segments and can provide this information to the user. This information would have been displayed next to the appropriate graphic element using the teaching of Krause.0

Regarding dependent claim 15, as amended, Rivette teaches:

The document review and management system of claim 13 further comprising:

a user interface provided for allowing a user to input a user- selected naming-term for searching within said single processor-recognizable file for said user-selected naming term and for linking said user-selected naming-term to an associated segment of textual description including and describing said user-selected naming term and a figure number of an associated graphic element linked by said user-selected naming term for displaying said associated segment of textual description and said figure number of said associate graphic element included in said drawing.

(See, Rivette, teaching a graphical user interface in col. 3 lines 49-51 and a text search within a single document in col. 4 lines 24-34. Rivette depicts this search in fig. 46. A search will obviously generate a report to display the results to the user after the search has completed. Rivette shows the results of a search in fig. 35, 36 and col. 29 line 65 –

Art Unit: 2176

col. 30 line 20. Rivette does not teach displaying the resulting of the search next to an associated graphic element related to the user selected naming-term. Krause does teach displaying text within a single document immediately next to an associated graphic element related to a user selected naming-term. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the result of the search would have displayed next to the associated graphic element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding dependent claim 16, Rivette teaches:

The document review and management system of claim 13 further comprising:

a user interface provided for allowing a user to input a user- selected naming-term for searching within said single processor-recognizable file for said user-selected naming term and for linking said user-selected naming-term to an associated segment of textual description including and describing said user-selected naming term and an associated graphic element related to said user-selected naming-term for displaying said user-selected naming-term with said associated textual description

Art Unit: 2176

immediately and directly next to said associated graphic element in said drawing.

(See, Rivette, teaching a user interface in col. 3 lines 49-51 and search and link in col. 4 lines 24-34. Rivette teaches the display of a graphic element linked with an associated text segment in col. 3 line 66 to col. 4 line 3. Rivette depicts this search in fig. 46. A search will obviously generate a report to display the results to the user after the search has completed. Rivette shows the results of a search in fig. 35, 36 and col. 29 line 65 – col. 30 line 20. Rivette does not teach displaying the resulting of the search next to an associated graphic element related to the user selected naming-term. Krause does teach displaying text within a single document immediately and directly next to an associated graphic element related to a user selected naming-term. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the result of the search would have displayed next to the associated graphic element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding dependent claim 17, as amended, Rivette teaches:

The document review and management system of claim 13 further comprising:

Art Unit: 2176

a user interface provided for allowing a user to input a user- selected naming-term for searching within said single processor-recognizable file for said user-selected naming term and for linking said user-selected naming-term to an associated segment of textual description including and describing said user-selected term and for displaying with said drawing said associated segment of textual description with a column or page number, and a line-range number in said single document for said associated segment of textual description in said single document.

(See, Rivette, teaching a user interface for searching and linking and also displaying the location of a found text in col. 3 lines 49-51, col. 3 line 66 through col. 4 line 3, and in col. 4 lines 24-34. Rivette depicts this search in fig. 46. A search will obviously generate a report to display the results to the user after the search has completed. Rivette is used for viewing patents and is fully aware of column number, page number, and line-range information of textual segments and can provide this information to the user. Rivette does not teach displaying the resulting of the search next to an associated graphic element related to the user selected naming-term. Krause does teach displaying text from a single document next to an associated graphic element related to a user selected naming-term. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the result of the search would have displayed next to the associated

graphic element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding dependent claim 18, Rivette teaches:

The document and review management system of claim 14 further comprising:

a user interface provided for allowing a user to input a user- selected naming-term for searching within said single processor-recognizable file for said user-selected naming term and for linking said user-selected naming-term to an associated segment of textual description including and describing said user-selected naming term and an associated graphic element in said drawing related to said user-selected naming-term; and said display means is further provided for displaying a drawing showing said associated graphic element with said associated segment of textual description and said column or page number, and said line-range number in said single document for said associated segment of textual description displayed immediately next to said graphic element.

(See, Rivette, teaching a user interface for searching and linking a naming-term to associated text in col. 3 lines 49-51, col. 3 line 66 through col. 4 line 3, and col. 4 lines 24-34. Rivette also teaches a display for drawing a graphic element, its associated text, linked naming-term and said term's location in col. 2 lines 42-50 and col. 16 lines 7-24.

Art Unit: 2176

Rivette does not teach displaying an alpha-numeral designation and naming term next to an associated graphic element. Krause does teach displaying a name, label, and text from a single document next to an associated graphic element related to a user selected naming-term. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the name, label, and text segment would have been displayed next to the associated graphic element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding independent claim 19, Rivette teaches:

A method for reading and managing a single document having textual descriptions and at least a drawing consisted of graphic elements designated with an graphic element designation associated with a naming term included and described in one of said textual descriptions of said single document incorporated in a single processor-recognizable file, comprising:

employing a display means for displaying said drawing with said naming term included in said textual description displayed immediately and directly next to said graphic elements whereby a document reviewer can directly and simultaneously view and associate said naming term to said graphic element without requiring a processor to process multiple files.

(See, Rivette, teaching a document reading means for reading a document having textual descriptions and at least a drawing having at least a graphic element assigned with an alpha-numeral designation, wherein said document reading means is further provided for converting said graphic element with said alphanumerical-designation and said textual descriptions to a plurality of processor-recognized elements in fig. 9 and 10. Fig. 9 demonstrates how the documents arrive in electronic format from the Patent and Trademark Office and then in fig. 10 displays the process of converting the documents into process-recognized elements.

Rivette also teaches a search and link means for searching said processor-recognized elements and linking alpha-numeral designations with at least one associated segment of textual description including the alpha-numeral designation wherein the alpha-numeral designation linked to a naming term in the document in fig. 35 and 36, col. 3 lines 28-51, and col. 29 line 65 – col. 30 line 20. Rivette describes how the text and image files are synchronized to produce Equivalent Files. The files are the equivalent of the elements and synchronized is the equivalent of linking in the claimed invention. Applicant's specification in page 3 lines 6-9 further discloses that products for searching and linking text to graphic elements are commonly available in the market.

Rivette teaches the display of both graphics and associated text including the column and line numbers of said text on the screen immediately next to one another in

both fig. 33, col. 3 line 66 to col. 4 line 5, and col. 4 lines 19-24. Fig. 33 shows and col. 4 lines 19-24 explains a patent image window immediately next to a window of associated text. What Rivette does not teach is each naming-term displayed immediately next to the graphic elements and the alpha-numeral designation assigned to each graphic element whereby a user can select an alpha-numeral designation or a naming term to display of the associated segment of textual description associated with said alpha-numeral designation or naming term.

Krause teaches each naming-term displayed immediately and directly next to the graphic elements in fig. 3-5 and col. 5 lines 7-18. See specifically Krause, Figure 5, showing a naming term, such as "building paper", for example, displayed immediately and directly next to said graphic element. The graphic elements and the text labels and text descriptions are all readily available to the user on one screen. Krause teaches in col. 5 lines 7-13 that both a name and label are placed upon the graphic at each of a plurality of hotspots. Furthermore, Krause teaches in fig. 3b that each hotspot has unique coordinates to uniquely identify each hotspot and consequently each graphic element identified by each hotspot is likewise uniquely identified by individual coordinates related to the location of the hotspot. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, said hotspot to display an associated segment of textual description. Krause teaches that the hotspots annotate a primary document and link to a textual description in a secondary document. These documents could be document parts for example in a hierarchical compound document

and thus the textual description invoked by the hotspot could be part of the same document as the graphical document containing the hotspot.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with Krause and teachings of Applicant's disclosure to have created the claimed invention. One of ordinary skill in the art would have taken the text of Rivette and used it to replace the numbered labels on the images, as is done in Krause, through the use of automatic link generation systems and techniques which Applicant's specification teaches were readily available in the market. It would have been obvious and desirable to make this modification such that the combined image and text information would have been easier to read.

While Rivette does not teach expressly that the textual descriptions include describing said naming term designated by said alpha-numeral designation, Krause teaches textual descriptions included in a secondary document that describes said naming term, such as describing the naming term which is designated by said alpha numeral designation "A" (See Krause, Figure 5, element 65). Furthermore, it would have been obvious to do so, providing the benefit of allowing the user to obtain additional information with regard to the naming term that may not be conveniently displayed on the initial display screen.

As disclosed, a "naming term" is the element name which is identified by number in a patent drawing. See, disclosure, figure 4B, and page 8, lines 2-4 and 15-17. There are two specifications to the term "naming term" as used in the claims. Using claim 1 as an exemplar of the independent claims, the first use of "naming term" is within the

specification of the search and link means for associating a "alpha-numeral designation" with "textual descriptions" "wherein said alpha-numeral designation designating a naming term illustrated by said graphic element. See, claim 1. The first specification does not require search by the naming term. A naming term is merely what is designated by the alpha-numeral that is searched for. The first specification is expressly taught in Rivette, figure 36, element 502, and col. 29, line 65 through col. 30, line 29, teaching the element number search.

The second specification for a "naming term" is found in claim 1 in the last section which specifies a display means "for displaying said drawing with said naming term displayed immediately next to said graphic element illustrated with said alphanumeral designation assigned to said graphic element whereby a document reviewer can directly and graphically view and associate said graphic element together with said naming term." See, Claim 1. This limitation is read by the Examiner as having been intended by the Applicant to mean that a graphic element, for example a bolt in the drawing of a mechanical device, is displayed next to the element number, for example "12," along with the "naming element," such as "bolt 12" with "bolt 12" appearing on the drawing rather than the usual designation of just "12."

It is noted that in the example immediately above, "bolt" is the same thing as "12." Displaying one or the other in association with a graphic fully identifies the graphic. Associating both the name "bolt" and the number "12" in association with the graphic is more informative, but essentially duplicative. This relationship is noted in support of the conclusion that it would have been obvious to one of ordinary skill in the

Art Unit: 2176

art at the time of the invention to identify a graphic by either the name or the number or both. The motivation for using both is for convenience is not having to look up the name associated with the number, or the number associated with the name. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the invention of Rivette, according to the teachings of Krause to display both a name and a number for a graphic item, as is specified in claim 19.)

While Rivette and Krause do not teach expressly incorporating the textual descriptions and the number of processor-recognized elements in a single processor-recognizable file, it was well known in the art at the time of the invention that various data may be combined into a single processor-recognizable file. At the time of the invention it would have been obvious to one of ordinary skill in the art to include the textual descriptions and processor-recognizable elements of Rivette and Krause in a single file without changing the respective function of the references and yielding the predictable result of storing both the textual descriptions and the processor-recognizable elements. Furthermore, it would have been obvious to do so, providing the benefit of allowing the textual descriptions to be stored with the processor-recognizable elements, thus making future updates more easily manageable by allowing the developer to access only a single file requiring updates rather than multiple files.

Regarding dependent claim 20, Rivette teaches:

The method of claim 19 wherein:

said step of displaying said drawing further comprising a step of displaying immediately and directly next to said graphic elements an associated segment of textual description including descriptions of said naming term..

(See, Rivette, teaching a display for drawing a graphic element, its associated text, and said text's location in col. 2 lines 42-50, col. 3 line 66 through col. 4 line 3, and col. 16 lines 7-24. Rivette does not teach displaying an alpha-numeral designation and naming term immediately next to an associated graphic element. Krause does teach displaying a name, label, and text from a single document next to an associated graphic element related to a user selected naming-term. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the name, label, and text segment would have been displayed next to the associated graphic element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Regarding dependent claim 21, Rivette teaches:

The method of claim 19 further comprising:

employing a user interface for allowing a user to input a user- selected naming-term for searching within said single processor-recognizable file

Art Unit: 2176

and for linking said user-selected naming-term to an associated segment of textual description including including descriptions of said user-selected naming term and for linking to an associated graphic element related to said user-selected naming term for displaying a drawing with said associated segment of textual description said user-selected naming term immediately and directly next to said graphic element.

(See, Rivette, teaching a graphical user interface in col. 3 lines 49-51 and a text search in col. 4 lines 24-34. Rivette depicts this search in fig. 46. A search will obviously generate a report to display the results to the user after the search has completed. Rivette does not teach displaying the resulting of the search immediately next to an associated graphic element related to the user selected naming-term. Krause does teach displaying text from a single document immediately next to an associated graphic element related to a user selected naming-term. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, a hotspot or naming-term to display an associated segment of textual description. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with the teaching of Krause so that the result of the search would have displayed next to the associated graphic element related to the user selected naming-term. It would have been obvious and desirable to have done this so that the text and graphic element could have been viewed simultaneously.)

Art Unit: 2176

It is noted that any citations to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. See, MPEP 2123.

Response to Arguments

8. Applicants' arguments filed 7 July 2008 have been fully considered, but they are not persuasive.

Applicant argues that Rivette in combination with Krause and Applicant's Specification fails to teach or suggest incorporating the textual descriptions and the number of processor-recognized elements in a single processor-recognizable file. The Office respectfully disagrees. As noted in the Office action filed 5 March 2008, per the MPEP, Section 2143.02, a rationale to support a conclusion that a claim would have been obvious is that all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded nothing more than predictable results to one of ordinary skill in the art. *KSR International Co. v.*

Teleflex Inc., 550 U.S. ____, 82 USPQ2d obv1385, 1395 (2007); Sakraida v. AG Pro, Inc., 425 U.S. 273, 282, 189 USPQ 449, 453 (1976); Anderson's-Black Rock, Inc v. Pavement Salvage Co., 396 U.S. 57, 62-63, 163 USPQ 673, 675 (1969); Great Atlantic & P. Tea Co. v. Supermarket Equipment Corp., 340 U.S. 147, 152, 87 USPQ 303, 306 (1950). In this case, it was well known in the art at the time of the invention that various data may be combined into a single processor-recognizable file. At the time of the invention it would have been obvious to one of ordinary skill in the art to include the textual descriptions and processor-recognizable elements of Rivette and Krause in a single file without changing the respective function of the references and yielding the predictable result of storing both the textual descriptions and the processorrecognizable elements. Furthermore, it would have been obvious to do so, providing the benefit of allowing the textual descriptions to be stored with the processorrecognizable elements, thus making future updates more easily manageable by allowing the developer to access only a single file requiring updates rather than multiple files.

Applicant argues that Rivette in combination with Krause and Applicant's Specification fails to teach or suggest at least one segment of said textual descriptions including and describing said naming term designated by said alpha-numeral designation, as amended. The Office respectfully disagrees. Krause teaches in col. 5 lines 14-18 that a user may select, using a mouse or keyboard, said hotspot to display an associated segment of textual description. Krause teaches that the hotspots annotate a primary document and link to a textual description in a secondary document.

These documents could be document parts for example in a hierarchical compound document and thus the textual description invoked by the hotspot could be part of the same document as the graphical document containing the hotspot. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rivette with Krause and teachings of Applicant's disclosure to have created the claimed invention. One of ordinary skill in the art would have taken the text of Rivette and used it to replace the numbered labels on the images, as is done in Krause, through the use of automatic link generation systems and techniques which Applicant's specification teaches were readily available in the market. It would have been obvious and desirable to make this modification such that the combined image and text information would have been easier to read. While Rivette does not teach expressly that the textual descriptions include describing said naming term designated by said alpha-numeral designation, Krause teaches textual descriptions included in a secondary document that describes said naming term, such as describing the naming term which is designated by said alpha numeral designation "A" (See Krause, Figure 5, element 65). Furthermore, it would have been obvious to do so, providing the benefit of allowing the user to obtain additional information with regard to the naming term that may not be conveniently displayed on the initial display screen.

Applicant argues that Rivette in combination with Krause and Applicant's Specification fails to teach or suggest displaying said drawing with said naming term displayed immediately and directly next to said graphic element illustrated with said alpha-numeral designation assigned to said graphic element whereby a document

Art Unit: 2176

reviewer can directly and graphically view and associate said graphic element together with said naming term, as amended. The Office respectfully disagrees. Krause teaches each naming-term displayed immediately and directly next to the graphic elements in fig. 3-5 and col. 5 lines 7-18. See specifically Krause, Figure 5, showing a naming term, such as "building paper", for example, displayed immediately and directly next to said graphic element.

Conclusion

- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laurie Ries whose telephone number is 571-272-4095. The examiner can normally be reached on M-F, 6:00am-3:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached on 571-272-4137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Art Unit: 2176

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Laurie Ries/ Patent Examiner Technology Center 2100 2 September 2008